	Application No.	Applicant(s)
Notice of Allowability	10/682,286 Examiner	BORTKEVITCH ET AL Art Unit
	Scott Bushey	1724
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>aplicant's election as detailed in the Interview Summary</u> .		
2. The allowed claim(s) is/are <u>1</u> .		
3. The drawings filed on 10 October 2003 are accepted by the Examiner.		
4.		
Attachment(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/06 Paper No./Mail Date  4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ⊠ Interview Summary Paper No./Mail Dat 8), 7. ⊠ Examiner's Amendn	è

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. William O. Wooden, Pro Se inventor on March 16, 2005.

The application has been amended as follows:

In the Claims:

Claim 1. (currently amended) Apparatus for producing a micro-dispersed gas-liquid mixture, comprising a cylindrical housing <u>having a cylindrical surface</u> with bottom and top covers, which in turn incorporate:

a gas-liquid ejector unit consisting of said bottom cover of said cylindrical housing, a first part of [[a]] said cylindrical surface of said housing, an inlet for gas connected to a gas injection line, an inlet nozzle for liquid connected to an injection liquid line and a first partition of said cylindrical housing, said inlet nozzle having has both outside and inner surfaces to adapt [[the]] a conical orifice of said first partition to provide a required flow-rate of an ejected gas through said gas inlet;

a cavitation unit communicating through said first partition with said gas-liquid ejector unit, said cavitation unit comprising said first partition, a second part of said cylindrical surface of said housing, a hollow cylindrical cavitation chamber having at least one tangential inlet allowing a gas-liquid mixture from said gas-liquid ejector unit to flow inside the hollow

Application/Control Number: 10/682,286 Page 3

Art Unit: 1724

cylindrical cavitation chamber and <u>a</u> second partition having an orifice connected to [[the to]] said hollow cylindrical cavitation chamber;

a jet dispersing unit communicating through said second partition orifice with said cavitation unit comprising said second partition, a third part of said cylindrical surface of said cylindrical housing, a hollow cylindrical dispersing chamber attached to said second partition, said top cover of said cylindrical housing and an outlet connected to an injection well, said hollow cylindrical dispersing chamber includes at least one outlet channel and a hollow dip at the bottom of said hollow cylindrical dispersing chamber, said outlet channel communicates with said outlet connected to said injection well.

Claims 2-4 (cancelled).

## **REASONS FOR ALLOWANCE**

2. The following is an examiner's statement of reasons for allowance:

The prior art of record fails to disclose or suggest an apparatus for producing a microdispersed gas-liquid mixture, including a cylindrical housing with bottom and top covers, wherein the housing incorporates the specifically claimed gas-liquid ejector, cavitation unit and jet dispersing unit in that order, the ejector and cavitation unit being separated by a first partition and the cavitation unit and the jet dispersing unit being separated by a second partition.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## CONCLUSION

Application/Control Number: 10/682,286

Art Unit: 1724

3. . Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Scott Bushey whose telephone number is (571) 272-1153. The

examiner can normally be reached on Monday-Thursday 6:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duane Smith can be reached on (571) 272-1166. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Scott Bushey Primary Examiner Page 4

Art Unit 1724

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